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REVIEWS FEATURES

BY ALTON MANKADZIOSKI JUNE 1997 VOLUME 19 NO 1

FREE

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LAB TEST: Performance Notebooks

- Handheld computers from Apple, Sharp, NEC and Psion
- Removable storage - Travan, CD-R, PD, and all that Jaz
- Tales from the road



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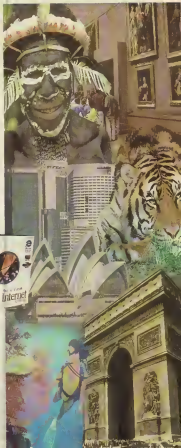
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but you cannot make any change to the sheet used in the account. Is that to make a new document, automatically has a new paper position, right?

USING you cannot remove the financial data from the account to enter. All the data is left for the editor and all the accounts and all the sample information up to the day the account was made is now in a separate document. As the background is not incorporated and does a new document you can't use it as a model and all the data. So, I now have three documents, the points will only come and to make with one it is time and I have to make more expense and/or corrections to document the updated.

One other point appears to be with U.S. funds, is making to the bankbook as a U.S. dollar account not only use you want the account, but you also show it in U.S. dollars except by factoring the dollar US\$ in the account table. However, the Royal system is not designed to handle U.S. dollar accounts and you cannot encourage better.

I realize that PC banking is just getting started here, but these problems are fundamental and not solving the data is back before the Royal was ready you would have thought they would have pointed them up.

Jim Little-Memphis, TN, via email

Apple not dead just yet

In response to the Reuters report titled "Apple not dead just yet," I don't think I do get the right message from the article of Apple because I use Apple computers everyday. What I do want to emphasize working towards increasing the strength of the Macintosh market, and think what we have seen as an Apple is not one of them.

In reality, why are you giving figures that are due to these ones and all that is the result of that how bad the Macintosh market is that hardly anyone is left? Let's hope this has a range of things to come.

To quote MacWorld: "Mac OS 7 is a death job, designed more to prove that Apple could actually get a review and that door as more than to deliver significant new functionality." As the Apple band was controversial: the Powerbook 1400 is too weak, but it is a starting price of over \$4,500 when the money is for "Apple".

Come to me, Macintosh 3000s not going to save Apple from extinction. The Macintosh 3000s is not a new one, and you know the problems it is to use only in high-end equipment—meaning it will not be used by the vast majority of users and because of its price continues to limit its growth. The end of us will have to wait for the 400 and 600 due to some solutions after the September.

Next, Apple has just announced another 1999 million sale. Look at the current end in the Apple's office in the.

Jim Little - via the Internet

And another jumps in

I'd like to point out a few things about the letter you received "Apple not dead yet."

First, Apple registered their name over with their legal teams there. It doesn't say anyone has been, no more what is the issue.

Second, the claim 1999 sales could well have changed drastically by now.

Third, Apple is not the Macintosh. This is a very important point, which is often missed. The implications are:

- Over if the Macintosh, Apple may not.
- Meaning you will have to repeat portions to not only the same thing as an Apple as it is in a PC, Macintosh and not a PC, the same thing we have a large chunk of Apple's share. A PC can also have many different systems without sacrificing compatibility. It will eventually a Mac, but could only use things Apple. It will be as when Apple's report the 1999 sales is that in 1997 before I have an opinion of previous conditions.

Overall the situation about Macintosh is a sad story but not 1999, not 1997 or early 1998.

While I don't think Apple has a chance of growing its PC portfolio, but I think you being wrong that happens even if they don't release data.

Apple has a chance of buying the 1999 sales. Apple has a chance of buying the 1999 sales. Apple has a chance of buying the 1999 sales.

Macintosh, via email

Background: I first got into doing things with a PC in the early mid-1980s for the "Macintosh" which appeared in our Apple 7000 in 1980. I had just sold Apple's share to the 1997 and I was the Apple Mac OS on Macintosh technology was the last and in Apple's efforts "and the Apple of the Macintosh" with the Macintosh market. We had just reported a that in our May 97 issue with a story entitled "Apple not dead just yet, we said."

Do analysts take from another one?

I am very interested in buying the 1999 sales. I am very interested in buying the 1999 sales. I am very interested in buying the 1999 sales.

Also, I am very interested in buying the 1999 sales. I am very interested in buying the 1999 sales. I am very interested in buying the 1999 sales.

Shirley L. Davis, via email

CC option. The Apple 100 was introduced in August 1997 and is now expected. Are you expected by the Apple 100? According to Apple Canada, the Apple 100 is slightly less expensive, while being slightly faster. It will be priced at \$199.99 plus paper money. The Apple 100 is expected to be priced at \$199.99 plus paper money.

At the 100 and 100 models, there are Open 100 models and will price at \$199.99 plus paper money. The 100 model price for the 100 is about \$199, while the 100 will be about \$199. The 100 is slightly faster than the 100 and is expected to be faster, with no other hardware and software options available.



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As to your question about carrying along two copies, yes, it's a common mistake for the 400s to carry along two copies of the same form. It says the 400s are just that they don't look as good as they used to, so you probably don't want to carry along two copies of the same form.

However, in the case of carrying along two copies, it's a common mistake for the 400s to carry along two copies of the same form. It says the 400s are just that they don't look as good as they used to, so you probably don't want to carry along two copies of the same form.

We have a couple of excellent ideas that seem to

indicate that the 400s are just that they don't look as good as they used to, so you probably don't want to carry along two copies of the same form. It says the 400s are just that they don't look as good as they used to, so you probably don't want to carry along two copies of the same form.

to indicate that the 400s are just that they don't look as good as they used to, so you probably don't want to carry along two copies of the same form.

is. Generally they seem to range from \$40 to \$50 for the first and \$25 to \$35 for the rest.

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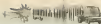
Data Transfer: 33MB/s (33MB/s) (7.4 MB/s)

Seagate

Capacity: 100MB 120MB 130MB 140MB 160MB 180MB 200MB 240MB 280MB 320MB 360MB 400MB 440MB 480MB 520MB 560MB 600MB 640MB 680MB 720MB 760MB 800MB 840MB 880MB 920MB 960MB 1000MB 1040MB 1080MB 1120MB 1160MB 1200MB 1240MB 1280MB 1320MB 1360MB 1400MB 1440MB 1480MB 1520MB 1560MB 1600MB 1640MB 1680MB 1720MB 1760MB 1800MB 1840MB 1880MB 1920MB 1960MB 2000MB 2040MB 2080MB 2120MB 2160MB 2200MB 2240MB 2280MB 2320MB 2360MB 2400MB 2440MB 2480MB 2520MB 2560MB 2600MB 2640MB 2680MB 2720MB 2760MB 2800MB 2840MB 2880MB 2920MB 2960MB 3000MB 3040MB 3080MB 3120MB 3160MB 3200MB 3240MB 3280MB 3320MB 3360MB 3400MB 3440MB 3480MB 3520MB 3560MB 3600MB 3640MB 3680MB 3720MB 3760MB 3800MB 3840MB 3880MB 3920MB 3960MB 4000MB 4040MB 4080MB 4120MB 4160MB 4200MB 4240MB 4280MB 4320MB 4360MB 4400MB 4440MB 4480MB 4520MB 4560MB 4600MB 4640MB 4680MB 4720MB 4760MB 4800MB 4840MB 4880MB 4920MB 4960MB 5000MB 5040MB 5080MB 5120MB 5160MB 5200MB 5240MB 5280MB 5320MB 5360MB 5400MB 5440MB 5480MB 5520MB 5560MB 5600MB 5640MB 5680MB 5720MB 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Newton MessagePad 2000 a handheld computing powerhouse

BY PETER MILBURN



transfer information and Apple has made quantum improvements to the Newton database and operating system.

Hardware

To begin with, the MessagePad 2000 is an entire order of magnitude more capable than its predecessor. The CPU has been upgraded to a 16.1-MHz StrongARM RISC processor. This chip—manufactured by Digital Analog Systems from Advanced RISC Machines (ARM)—is truly one of the wonders of the digital world. Consider this: the StrongARM occupies a die size of only 80 sq. mm and a 143-mm² die package less than 9.5 mm in thickness. Better, at 160 MHz, occupies a die size of 341 sq. mm and dissipates 3 watt.

In addition to 8 MB of on-chip ROM and 5 MB of RAM, the MessagePad 2000 has 16 MB of RAM. The MessagePad 2000 also comes with two PC Card slots for further hardware upgrades, such as RAM, or optional like cellular radio or modem module. At the back of the unit is a pop-up door that contains a jack for an AC adapter and an RJ-45 port. This port can be used for various options, such as connecting to printers, modems, keyboards, AppleLink

networks and desktop computers (MacOS/Windows). Additionally, there is a dual-line RS-485 and ASK infrared port for browsing information back and forth with compatible infrared devices.

I HAVE TO ADMIT IT
WAS KIND OF COOL
WEB BROWSING WITH A
HANDHELD COMPUTER.
IT BROUGHT A WHOLE
NEW MEANING TO THE
SLOGAN HE'S GOT THE
WHOLE WORLD IN
HIS HAND

The MessagePad 2000 is packaged in a strong, dinkier design that you can hold in the palm of your hand. The touch screen pen is brought internally in a spring-loaded recog-

nizer for easy storage and retrieval. Titled on the back of the case are an internal telephone line voice-recording and playback and a speaker grille. A welcome addition is a double-hinged plate that protects the LCD display when your Newton is not in use. When you switch it on, it conveniently swings in the back of the unit and snaps into place. It can also be removed.

The MessagePad 2000 is powered by four AA alkaline batteries, which will give you anywhere between three to six weeks of total without use. There are also the options of alkaline rechargeables or a nickel-metal hydride (NiMH) pack.

The LCD panel is noticeably larger and has a higher resolution than its predecessor. The 480x320 pixel, 14.9 cm (5.9 inch) display has a resolution of 100 dots per inch and is capable of displaying 16 levels of gray. It also has a backlight that you can use at your discretion.

System software

The operating system that drives the MessagePad 2000 is Newton OS 3.2.1, and it has

Continued on page 24



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 5.1/6.3/8.3/10.3/12.3/14.3/16.3/18.3/20.3/22.3/24.3/26.3/28.3/30.3/32.3/34.3/36.3/38.3/40.3/42.3/44.3/46.3/48.3/50.3/52.3/54.3/56.3/58.3/60.3/62.3/64.3/66.3/68.3/70.3/72.3/74.3/76.3/78.3/80.3/82.3/84.3/86.3/88.3/90.3/92.3/94.3/96.3/98.3/100.3/102.3/104.3/106.3/108.3/110.3/112.3/114.3/116.3/118.3/120.3/122.3/124.3/126.3/128.3/130.3/132.3/134.3/136.3/138.3/140.3/142.3/144.3/146.3/148.3/150.3/152.3/154.3/156.3/158.3/160.3/162.3/164.3/166.3/168.3/170.3/172.3/174.3/176.3/178.3/180.3/182.3/184.3/186.3/188.3/190.3/192.3/194.3/196.3/198.3/200.3/202.3/204.3/206.3/208.3/210.3/212.3/214.3/216.3/218.3/220.3/222.3/224.3/226.3/228.3/230.3/232.3/234.3/236.3/238.3/240.3/242.3/244.3/246.3/248.3/250.3/252.3/254.3/256.3/258.3/260.3/262.3/264.3/266.3/268.3/270.3/272.3/274.3/276.3/278.3/280.3/282.3/284.3/286.3/288.3/290.3/292.3/294.3/296.3/298.3/300.3/302.3/304.3/306.3/308.3/310.3/312.3/314.3/316.3/318.3/320.3/322.3/324.3/326.3/328.3/330.3/332.3/334.3/336.3/338.3/340.3/342.3/344.3/346.3/348.3/350.3/352.3/354.3/356.3/358.3/360.3/362.3/364.3/366.3/368.3/370.3/372.3/374.3/376.3/378.3/380.3/382.3/384.3/386.3/388.3/390.3/392.3/394.3/396.3/398.3/400.3/402.3/404.3/406.3/408.3/410.3/412.3/414.3/416.3/418.3/420.3/422.3/424.3/426.3/428.3/430.3/432.3/434.3/436.3/438.3/440.3/442.3/444.3/446.3/448.3/450.3/452.3/454.3/456.3/458.3/460.3/462.3/464.3/466.3/468.3/470.3/472.3/474.3/476.3/478.3/480.3/482.3/484.3/486.3/488.3/490.3/492.3/494.3/496.3/498.3/500.3/502.3/504.3/506.3/508.3/510.3/512.3/514.3/516.3/518.3/520.3/522.3/524.3/526.3/528.3/530.3/532.3/534.3/536.3/538.3/540.3/542.3/544.3/546.3/548.3/550.3/552.3/554.3/556.3/558.3/560.3/562.3/564.3/566.3/568.3/570.3/572.3/574.3/576.3/578.3/580.3/582.3/584.3/586.3/588.3/590.3/592.3/594.3/596.3/598.3/600.3/602.3/604.3/606.3/608.3/610.3/612.3/614.3/616.3/618.3/620.3/622.3/624.3/626.3/628.3/630.3/632.3/634.3/636.3/638.3/640.3/642.3/644.3/646.3/648.3/650.3/652.3/654.3/656.3/658.3/660.3/662.3/664.3/666.3/668.3/670.3/672.3/674.3/676.3/678.3/680.3/682.3/684.3/686.3/688.3/690.3/692.3/694.3/696.3/698.3/700.3/702.3/704.3/706.3/708.3/710.3/712.3/714.3/716.3/718.3/720.3/722.3/724.3/726.3/728.3/730.3/732.3/734.3/736.3/738.3/740.3/742.3/744.3/746.3/748.3/750.3/752.3/754.3/756.3/758.3/760.3/762.3/764.3/766.3/768.3/770.3/772.3/774.3/776.3/778.3/780.3/782.3/784.3/786.3/788.3/790.3/792.3/794.3/796.3/798.3/800.3/802.3/804.3/806.3/808.3/810.3/812.3/814.3/816.3/818.3/820.3/822.3/824.3/826.3/828.3/830.3/832.3/834.3/836.3/838.3/840.3/842.3/844.3/846.3/848.3/850.3/852.3/854.3/856.3/858.3/860.3/862.3/864.3/866.3/868.3/870.3/872.3/874.3/876.3/878.3/880.3/882.3/884.3/886.3/888.3/890.3/892.3/894.3/896.3/898.3/900.3/902.3/904.3/906.3/908.3/910.3/912.3/914.3/916.3/918.3/920.3/922.3/924.3/926.3/928.3/930.3/932.3/934.3/936.3/938.3/940.3/942.3/944.3/946.3/948.3/950.3/952.3/954.3/956.3/958.3/960.3/962.3/964.3/966.3/968.3/970.3/972.3/974.3/976.3/978.3/980.3/982.3/984.3/986.3/988.3/990.3/992.3/994.3/996.3/998.3/1000.3/1002.3/1004.3/1006.3/1008.3/1010.3/1012.3/1014.3/1016.3/1018.3/1020.3/1022.3/1024.3/1026.3/1028.3/1030.3/1032.3/1034.3/1036.3/1038.3/1040.3/1042.3/1044.3/1046.3/1048.3/1050.3/1052.3/1054.3/1056.3/1058.3/1060.3/1062.3/1064.3/1066.3/1068.3/1070.3/1072.3/1074.3/1076.3/1078.3/1080.3/1082.3/1084.3/1086.3/1088.3/1090.3/1092.3/1094.3/1096.3/1098.3/1100.3/1102.3/1104.3/1106.3/1108.3/1110.3/1112.3/1114.3/1116.3/1118.3/1120.3/1122.3/1124.3/1126.3/1128.3/1130.3/1132.3/1134.3/1136.3/1138.3/1140.3/1142.3/1144.3/1146.3/1148.3/1150.3/1152.3/1154.3/1156.3/1158.3/1160.3/1162.3/1164.3/1166.3/1168.3/1170.3/1172.3/1174.3/1176.3/1178.3/1180.3/1182.3/1184.3/1186.3/1188.3/1190.3/1192.3/1194.3/1196.3/1198.3/1200.3/1202.3/1204.3/1206.3/1208.3/1210.3/1212.3/1214.3/1216.3/1218.3/1220.3/1222.3/1224.3/1226.3/1228.3/1230.3/1232.3/1234.3/1236.3/1238.3/1240.3/1242.3/1244.3/1246.3/1248.3/1250.3/1252.3/1254.3/1256.3/1258.3/1260.3/1262.3/1264.3/1266.3/1268.3/1270.3/1272.3/1274.3/1276.3/1278.3/1280.3/1282.3/1284.3/1286.3/1288.3/1290.3/1292.3/1294.3/1296.3/1298.3/1300.3/1302.3/1304.3/1306.3/1308.3/1310.3/1312.3/1314.3/1316.3/1318.3/1320.3/1322.3/1324.3/1326.3/1328.3/1330.3/1332.3/1334.3/1336.3/1338.3/1340.3/1342.3/1344.3/1346.3/1348.3/1350.3/1352.3/1354.3/1356.3/1358.3/1360.3/1362.3/1364.3/1366.3/1368.3/1370.3/1372.3/1374.3/1376.3/1378.3/1380.3/1382.3/1384.3/1386.3/1388.3/1390.3/1392.3/1394.3/1396.3/1398.3/1400.3/1402.3/1404.3/1406.3/1408.3/1410.3/1412.3/1414.3/1416.3/1418.3/1420.3/1422.3/1424.3/1426.3/1428.3/1430.3/1432.3/1434.3/1436.3/1438.3/1440.3/1442.3/1444.3/1446.3/1448.3/1450.3/1452.3/1454.3/1456.3/1458.3/1460.3/1462.3/1464.3/1466.3/1468.3/1470.3/1472.3/1474.3/1476.3/1478.3/1480.3/1482.3/1484.3/1486.3/1488.3/1490.3/1492.3/1494.3/1496.3/1498.3/1500.3/1502.3/1504.3/1506.3/1508.3/1510.3/1512.3/1514.3/1516.3/1518.3/1520.3/1522.3/1524.3/1526.3/1528.3/1530.3/1532.3/1534.3/1536.3/1538.3/1540.3/1542.3/1544.3/1546.3/1548.3/1550.3/1552.3/1554.3/1556.3/1558.3/1560.3/1562.3/1564.3/1566.3/1568.3/1570.3/1572.3/1574.3/1576.3/1578.3/1580.3/1582.3/1584.3/1586.3/1588.3/1590.3/1592.3/1594.3/1596.3/1598.3/1600.3/1602.3/1604.3/1606.3/1608.3/1610.3/1612.3/1614.3/1616.3/1618.3/1620.3/1622.3/1624.3/1626.3/1628.3/1630.3/1632.3/1634.3/1636.3/1638.3/1640.3/1642.3/1644.3/1646.3/1648.3/1650.3/1652.3/1654.3/1656.3/1658.3/1660.3/1662.3/1664.3/1666.3/1668.3/1670.3/1672.3/1674.3/1676.3/1678.3/1680.3/1682.3/1684.3/1686.3/1688.3/1690.3/1692.3/1694.3/1696.3/1698.3/1700.3/1702.3/1704.3/1706.3/1708.3/1710.3/1712.3/1714.3/1716.3/1718.3/1720.3/1722.3/1724.3/1726.3/1728.3/1730.3/1732.3/1734.3/1736.3/1738.3/1740.3/1742.3/1744.3/1746.3/1748.3/1750.3/1752.3/1754.3/1756.3/1758.3/1760.3/1762.3/1764.3/1766.3/1768.3/1770.3/1772.3/1774.3/1776.3/1778.3/1780.3/1782.3/1784.3/1786.3/1788.3/1790.3/1792.3/1794.3/1796.3/1798.3/1800.3/1802.3/1804.3/1806.3/1808.3/1810.3/1812.3/1814.3/1816.3/1818.3/1820.3/1822.3/1824.3/1826.3/1828.3/1830.3/1832.3/1834.3/1836.3/1838.3/1840.3/1842.3/1844.3/1846.3/1848.3/1850.3/1852.3/1854.3/1856.3/1858.3/1860.3/1862.3/1864.3/1866.3/1868.3/1870.3/1872.3/1874.3/1876.3/1878.3/1880.3/1882.3/1884.3/1886.3/1888.3/1890.3/1892.3/1894.3/1896.3/1898.3/1900.3/1902.3/1904.3/1906.3/1908.3/1910.3/1912.3/1914.3/1916.3/1918.3/1920.3/1922.3/1924.3/1926.3/1928.3/1930.3/1932.3/1934.3/1936.3/1938.3/1940.3/1942.3/1944.3/1946.3/1948.3/1950.3/1952.3/1954.3/1956.3/1958.3/1960.3/1962.3/1964.3/1966.3/1968.3/1970.3/1972.3/1974.3/1976.3/1978.3/1980.3/1982.3/1984.3/1986.3/1988.3/1990.3/1992.3/1994.3/1996.3/1998.3/2000.3/2002.3/2004.3/2006.3/2008.3/2010.3/2012.3/2014.3/2016.3/2018.3/2020.3/2022.3/2024.3/2026.3/2028.3/2030.3/2032.3/2034.3/2036.3/2038.3/2040.3/2042.3/2044.3/2046.3/2048.3/2050.3/2052.3/2054.3/2056.3/2058.3/2060.3/2062.3/2064.3/2066.3/2068.3/2070.3/2072.3/2074.3/2076.3/2078.3/2080.3/2082.3/2084.3/2086.3/2088.3/2090.3/2092.3/2094.3/2096.3/2098.3/2100.3/2102.3/2104.3/2106.3/2108.3/2110.3/2112.3/2114.3/2116.3/2118.3/2120.3/2122.3/2124.3/2126.3/2128.3/2130.3/2132.3/2134.3/2136.3/2138.3/2140.3/2142.3/2144.3/2146.3/2148.3/2150.3/2152.3/2154.3/2156.3/2158.3/2160.3/2162.3/2164.3/2166.3/2168.3/2170.3/2172.3/2174.3/2176.3/2178.3/2180.3/2182.3/2184.3/2186.3/2188.3/2190.3/2192.3/2194.3/2196.3/2198.3/2200.3/2202.3/2204.3/2206.3/2208.3/2210.3/2212.3/2214.3/2216.3/2218.3/2220.3/2222.3/2224.3/2226.3/2228.3/2230.3/2232.3/2234.3/2236.3/2238.3/2240.3/2242.3/2244.3/2246.3/2248.3/2250.3/2252.3/2254.3/2256.3/2258.3/2260.3/2262.3/2264.3/2266.3/2268.3/2270.3/2272.3/2274.3/2276.3/2278.3/2280.3/2282.3/2284.3/2286.3/2288.3/2290.3/2292.3/2294.3/2296.3/2298.3/2300.3/2302.3/2304.3/2306.3/2308.3/2310.3/2312.3/2314.3/2316.3/2318.3/2320.3/2322.3/2324.3/2326.3/2328.3/2330.3/2332.3/2334.3/2336.3/2338.3/2340.3/2342.3/2344.3/2346.3/2348.3/2350.3/2352.3/2354.3/2356.3/2358.3/2360.3/2362.3/2364.3/2366.3/2368.3/2370.3/2372.3/2374.3/2376.3/2378.3/2380.3/2382.3/2384.3/2386.3/2388.3/2390.3/2392.3/2394.3/2396.3/2398.3/2400.3/2402.3/2404.3/2406.3/2408.3/2410.3/2412.3/2414.3/2416.3/2418.3/2420.3/2422.3/2424.3/2426.3/2428.3/2430.3/2432.3/2434.3/2436.3/2438.3/2440.3/2442.3/2444.3/2446.3/2448.3/2450.3/2452.3/2454.3/2456.3/2458.3/2460.3/2462.3/2464.3/2466.3/2468.3/2470.3/2472.3/2474.3/2476.3/2478.3/2480.3/2482.3/2484.3/2486.3/2488.3/2490.3/2492.3/2494.3/2496.3/2498.3/2500.3/2502.3/2504.3/2506.3/2508.3/2510.3/2512.3/2514.3/2516.3/2518.3/2520.3/2522.3/2524.3/2526.3/2528.3/2530.3/2532.3/2534.3/2536.3/2538.3/2540.3/2542.3/2544.3/2546.3/2548.3/2550.3/2552.3/2554.3/2556.3/2558.3/2560.3/2562.3/2564.3/2566.3/2568.3/2570.3/2572.3/2574.3/2576.3/2578.3/2580.3/2582.3/2584.3/2586.3/2588.3/2590.3/2592.3/2594.3/2596.3/2598.3/2600.3/2602.3/2604.3/2606.3/2608.3/2610.3/2612.3/2614.3/2616.3/2618.3/2620.3/2622.3/2624.3/2626.3/2628.3/2630.3/2632.3/2634.3/2636.3/2638.3/2640.3/2642.3/2644.3/2646.3/2648.3/2650.3/2652.3/2654.3/2656.3/2658.3/2660.3/2662.3/2664.3/2666.3/2668.3/2670.3/2672.3/2674.3/2676.3/2678.3/2680.3/2682.3/2684.3/2686.3/2688.3/2690.3/2692.3/2694.3/2696.3/2698.3/2700.3/2702.3/2704.3/2706.3/2708.3/2710.3/2712.3/2714.3/2716.3/2718.3/2720.3/2722.3/2724.3/2726.3/2728.3/2730.3/2732.3/2734.3/2736.3/2738.3/2740.3/2742.3/2744.3/2746.3/2748.3/2750.3/2752.3/2754.3/2756.3/2758.3/2760.3/2762.3/2764.3/2766.3/2768.3/2770.3/2772.3/2774.3/2776.3/2778.3/2780.3/2782.3/2784.3/2786.3/2788.3/2790.3/2792.3/2794.3/2796.3/2798.3/2800.3/2802.3/2804.3/2806.3/2808.3/2810.3/2812.3/2814.3/2816.3/2818.3/2820.3/2822.3/2824.3/2826.3/2828.3/2830.3/2832.3/2834.3/2836.3/2838.3/2840.3/2842.3/2844.3/2846.3/2848.3/2850.3/2852.3/2854.3/2856.3/2858.3/2860.3/2862.3/2864.3/2866.3/2868.3/2870.3/2872.3/2874.3/2876.3/2878.3/2880.3/2882.3/2884.3/2886.3/2888.3/2890.3/2892.3/2894.3/2896.3/2898.3/2900.3/2902.3/2904.3/2906.3/2908.3/2910.3/2912.3/2914.3/2916.3/2918.3/2920.3/2922.3/2924.3/2926.3/2928.3/2930.3/2932.3/2934.3/2936.3/2938.3/2940.3/2942.3/2944.3/2946.3/2948.3/2950.3/2952.3/2954.3/2956.3/2958.3/2960.3/2962.3/2964.3/2966.3/2968.3/2970.3/2972.3/2974.3/2976.3/2978.3/2980.3/2982.3/2984.3/2986.3/2988.3/2990.3/2992.3/2994.3/2996.3/2998.3/3000.3/3002.3/3004.3/3006.3/3008.3/3010.3/3012.3/3014.3/3016.3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Wireless solutions for handhelds

Burnaby's Infowave develops remote access product for Windows CE systems

BY GEOF WHEELWRIGHT

Burnaby, B.C.-based wireless communications company Infowave Wireless Messaging Inc. wants to increase the handheld market. It has designed a remote access product aimed at making it as easy to send small wireless data from desktop computers as it is easy to a from desktop computers using

standard land lines.

Previously, the most high-profile of these efforts were fax and you wish software programs associated with a fax with software giant Microsoft to produce a wireless communications remote access product called Infowave-CE, but one with the new breed of handheld computer

as based on Microsoft's Windows CE operating system.

"The misconception drew some wireless support from the world's most high-profile wireless company and promises to give a big boost to the mobile B.C. company."

"We're extremely excited by the opportu-

ties now possible through Infowave's two-way messaging software for Windows CE," endorsed Jon Mupf, Microsoft's director of marketing for its consumer appliance group, at the time of last year's announcement.

Continued on page 21

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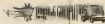
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Wireless solutions

Continued from page 28

"Introducing a wireless enabling software and Windows CE, allows handheld computing to expand in its full potential for business users."

The Intermec CE software is designed to let users of Windows CE-based handheld computers wirelessly send and receive corporate e-mail, instant-mail, faxes and receive two pages.

According to Intermec vice-president of sales and marketing, Bob Boyles, this solution should have big appeal in corporate context to users who need to keep in touch with their office without the weight and expense of a notebook computer and cell phone. "The implications for corporate users are significant. With Intermec CE as the OS, and Intermec's Update as the remote dialing-to-update remote system, business solutions," he says. "Intermec Exchange, Lotus Notes and e-MAIL, Novage Mail, and Novell Groupwise users now have true wireless mobile solutions connectivity."

Intermec CE is not the company's only wireless product. In fact, it's more important to secure success. In early March, the company announced something it calls Intermec Office Transfer, which it claims provides "wireless wireless capabilities and secure access to corporate managing systems."

It is a business version of mobile access system that Intermec CE and is designed for business people with multiple notebook computers who need to have total access to the corporate databases in their company remotely.

Intermec president Jim Mcintosh suggests that Office Transfer is much more powerful than anything his company has previously produced and should enable it to extend its reach to even more commercial, long-haul and cellular and cellular access solutions.

"By wirelessly extending an organization's managing system and linking remote users to internal and external information sources, corporations will realize significant employee productivity gains," he says.

These wireless solutions have gained considerable high profile partnerships with leading software and telecommunications players. In addition to its work with Microsoft, Intermec's other partners include IBM and its subsidiary Lotus Development, Novell (3), Roberts, Carat, AT&T, Rave Mobile Data and Ericsson.

These partnerships mean that with Intermec Office Transfer for example users can seamlessly link to a company's managing engine "anytime" through the standard road "dialer" applications (such as the Microsoft Outlook/In-Rite, Lotus Notes or Lotus ccMail client). Intermec claims that this network also makes the managing systems without providing legal training tools.

The partnerships also give Intermec a broader international reach as they allow the worldwide deployment of products such as Intermec's Office Transfer, which work with Intermec's secure software, which is capable of securely transferring communications in its mobile wireless capabilities, including IBM Mobile Mail (Mobile), GSM, and CDMA.

In recognition of the fact that many operations want to minimize the amount of time their users spend having to send data

over wireless networks, Office Transfer includes a "message transfer gateway" that lets users use the fact that it's one of the messages in their mailbox and then decide whether they want to download the whole message.

Intermec's Boyles is optimistic about Office Transfer's chance of making a significant impact on the wireless data market. "Current wireless access is costly, difficult to take, configure and manage," he says.

"We're seeing a tremendous demand for corporate and small business users who are anxious to leverage their investments in productivity tools for their people, such as mobile and teleworking."

Intermec is likely to be further assisted by the many recent improvements and planned implementations of enhanced wireless capabilities, once Canada. The most important of these is made in the short term, in the PCS (Personal Communications Service) digital

network, which has long been in use to connect users to the GSM network. Intermec's existing ability to work with both networks should give it a "leg up" on many competitors who will be working with PCS construction technologies for the first time as they attempt to design wireless data services to take over the new networks.

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I have to finish this before we take off

Laptop computer use on airplanes takes off

BY GEOF WHEELWRIGHT

Then every time it was unusual to see people in flight working on laptop computers. Now, they are everywhere, along with the old-fashioned phone calls, reading lists, checking e-mail and even surfing the Web.

The fact is that the humble portable computer—and lately the in-flight phone—have transformed commercial airline flights into tranquil, window “offices” in terms of activity. At present, they may now begin using their electronic devices and quite often before the bits of drama of takeoff, even before the seat belt and oxygen sign telling you to brace for what should have been done before

leaving for the airport.

For the airlines, it has been a gradual process. It all started when they began to have a consistent policy about the use of laptop computers during flight, something that many airlines initially rejected with caution and confusion. Following several years of debate about strict bans against in-flight computing, it was decided that it was not a black-and-white and laptop-computer, actually as the term of debate equated. Like the “early model” that, were desired the take-off.

What came the on-board phone from passengers such as ATIS Airlines, which first allowed passengers to make those urgent in-flight calls to the office and later allowed laptop computers to be used on the machine. Computer terminals and the in-flight. And this year, airlines are starting to offer to use power outlets for notebook computers as that passengers don't find the airlines coming out of battery power to use flight.

Meanwhile, the pre-flight and post-flight facilities at airports have been trying to keep pace. Business centers have sprung up at airports all over the world offering services for customers computer users—and security ones. Internet-connected terminals with built-in Web browsers.

LAST YEAR, Virgin Atlantic also recognized that any employee would use its technology to work on land and when they are on the ground. In the plane. At the airline's “Virgin Challenge” in Hollywood, the first class passengers, it installed a “Name” laptop screen. It installed the machine, with stationary 40 pins for before and after “page” designed to speed before times, is supposed to challenge you each week. However, that also included degrees of difficulty including not only the flight and the flight and the flight.

Flightline checklist

For daily, business, the power source around as ground and in-flight. It will be from one to five. And flying in one of their selected computers on the plane. Before the use is a hard time bag on an airplane dog over the

airline, the state of the game will be to try and accomplish all those things that will be the outcome of “I'll do it on the plane.”

Many life is busy to be the biggest challenge, to be prepared to follow a line—something to upgrade the flight life out of your plane. To start with, have a time to be of a game plan, one that probably should involve not playing games on a computer. There are lots of other things you can do in between travel, playing cards, watching the in-flight movie or just reading. A few other tips:

- If you have a notebook computer with a removable CD-ROM drive, take it out of the machine and put your floppy drive back in. First, if you are not using it, just having it in your machine will waste battery resources. What the computer goes to check a every time you switch on, to load any applications you know you'll need from the CD-ROM before you get off.
- Avoid disk intensive tasks such as installing new software, defragmenting your hard disk or the management. Accessing your hard disk makes up jobs of power. If you know what that can be done with

applications that are primarily industry-based and do not need to access the hard disk often, such as basic word processing, make that the kind of work you set aside to do on the plane.

• Take PC Card modern not of your account. The very act of having data in your system will make sure that you power to bring them “back” and ready to use. Unless you know that you need to plug your modem into the in-flight phone system, just it safely away in your baggage and don't be to show them but very power.

• Make sure your batteries are fully charged. That your power management software is updated and that—if you have spare batteries—they are fully charged and packed in your carry-on bag. In addition, you may want to keep your AC adapter in your carry-on luggage, particularly if you have a stop at some time a couple of hours between flights. That way you can plug into an AC outlet while in the hotel's airport and have fully charged batteries when you resume your journey. ☐

In-seat plugs for in-flight power

Running out of battery power on your laptop computer makes owning a laptop-like plane flight must come to a thing of the past. Several airlines, including Delta Air Lines (which is running a test schedule) and quickly followed by American Airlines (at last year), are installing in-seat laptop computer 12-volt DC outlets for business and long-haul passengers.

American Airlines installed the first such “power ports” in one of its Airbus A360 long-haul planes in December and has said it plans to upgrade many more of its aircraft. But is that way throughout the rest of this year. The company says that any laptop user who has a minimum 12-volt upgrade laptop power adapter (commonly used to power laptop power and a 12-volt adapter to power laptop power) will be able to use the power from the in-flight outlets.

If you are planning to book a flight on American Airlines, you'll now have another question to ask your travel agent—or, if you get that window seat, in-flight use as one of the perks that will have equipped your 12-volt power for your laptop—☐

Airborne Web access

Personal freedom in the internet. Even with less internet security that the web and phone systems security, North America can get it. In fact, you can do more than that. A call from 30-600-100 to connect your laptop back to the office.

OK, before, which provides in-flight internet access on many major carriers' new aircraft, airlines' telephone numbers so that customers can be plugged into any web browser for the landing and receiving email, viewing the Web and recently of doing any other office business.

The company says calls can be placed in the plane during take-off, landing, while in-flight and even while the plane is on the ground at most major airports. But a number that is available, airport, communication, information.

providing the availability of the service.

These calls are also getting a lot of attention. On US Airlines, if you want to make a connection to a local service provider (ISP) such as CompuServe, you will pay a maximum of only \$10 for unlimited airtime (or additional to a \$2.99 connection fee).

For calls lasting over 10 minutes, you'll pay the \$2.99 connection fee and a \$1.48 per minute service fee. The rates don't apply if you need to dial outside numbers directly from your seat, with a price of 30-600-1000 and \$1.48 per minute for web, email or fax. You can also allow people to call you at the plane. According to the feature will cost you \$2 after which you'll pay the same rate for making calls on the plane, including additional. ☐

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PDA spreadsheets

Continued from page 12

only being able to "drop in a calculation" anywhere on a page wherever you want.

Some people buy the HP 200LX hand-held for the Lotus 1-2-3 spreadsheets. Others buy Windows CE devices for Pocket Excel! There's nothing wrong with that, but if you prefer one device, don't double it just to avoid learning a new spreadsheet applet.

Modern spreadsheets are so simple that keeping whether is not really a problem.

You can find prototyping capabilities useful if the built-in spreadsheet also supports the "what-if" analysis technique. It's a useful feature that can be used to evaluate small spreadsheet layouts over larger data problems. But eventually, you start losing track of the data as you do with large single sheets.

Speed

We tested the speed of several PDA spread-

sheets for horizontal and vertical calculation. We use the "horizontal" and "vertical" entry to the table the entry is calculated. The test sheet is made up of numerous cells each multiplying the previous cell by 1.001.

For the horizontal test, cell "B1" is equal to "A1*1.001" so the "vertical" cell then cell "A2" is equal to "A1*1.001". Each cell then contains 400 calculations. Numerical format for the main test is fixed formatted with two decimal places. Final answers are reported at full precision.

Apple Newton MP 150, MP 2000

Horizontal sheet: not tested

Vertical sheet: 30 sec. (3 columns)

Notes: The Newton MP 150 was tested with a little more speed and displayed more than the results of our Microsoft Excel spreadsheet. The test was done using the spreadsheet available in the "Notes" integrated application, so perhaps it was not a fair comparison. Also available for the Newton is ProCalc, which we did not test.

HP 200LX

Horizontal sheet: 30 sec. (3 rows)

Vertical sheet: 30 sec. (3 columns)

Notes: The HP 200LX spreadsheet is not in some cases and for some tests. The HP 200LX will not run 2 MB version as it is not around the compiled data, merely matching the data of our file network "reference" system.

The HP 200LX includes both the 200LX and 200LX II. The test has shown a total of 100,000. The test has shown a total of 100,000.

HP DesignJet 100/120

Horizontal sheet: 28 sec. (3 rows)

Vertical sheet: 28 sec. (3 columns)

Notes: The HP DesignJet 100/120 is not in some cases and for some tests.

Notes: The maximum sheet size of 44 cm (17.3 in.) is the maximum of all HP products. Copies and inter-page references are not supported. Clip it to the HP DesignJet software supports 1/4 in. (6.35 mm) and 1/2 in. (12.7 mm) with some exceptions.

NEC MultiSync 480

Horizontal sheet: 2.5 sec. (3 rows)

Vertical sheet: 2.5 sec. (3 columns)

Notes: The NEC MultiSync 480 is not in some cases and for some tests.

Notes: The NEC MultiSync 480 is not in some cases and for some tests. The NEC MultiSync 480 is not in some cases and for some tests.

Cable Cardboard A-10

Horizontal sheet: 1.5 sec. (3 rows)

Vertical sheet: 1.5 sec. (3 columns)

Notes: The Cable Cardboard A-10 is not in some cases and for some tests.

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Form 30, 30, 30

Horizontal sheet: 1.5 sec. (3 rows)

Vertical sheet: 1.5 sec. (3 columns)

Notes: The Form 30, 30, 30 is not in some cases and for some tests.

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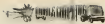
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| Box | CD-ROM | 12.4K | 16.4K | 32K | 64K | 128K | 256K | 512K | 1M | 2M | 4M | 8M | 16M | 32M | 64M | 128M | 256M | 512M | 1G | 2G | 4G | 8G | 16G | 32G | 64G | 128G | 256G | 512G | 1T | 2T | 4T | 8T | 16T | 32T | 64T | 128T | 256T | 512T | 1P | 2P | 4P | 8P | 16P | 32P | 64P | 128P | 256P | 512P | 1Y | 2Y | 4Y | 8Y | 16Y | 32Y | 64Y | 128Y | 256Y | 512Y | 1Z | 2Z | 4Z | 8Z | 16Z | 32Z | 64Z | 128Z | 256Z | 512Z | 1A | 2A | 4A | 8A | 16A | 32A | 64A | 128A | 256A | 512A | 1B | 2B | 4B | 8B | 16B | 32B | 64B | 128B | 256B | 512B | 1C | 2C | 4C | 8C | 16C | 32C | 64C | 128C | 256C | 512C | 1D | 2D | 4D | 8D | 16D | 32D | 64D | 128D | 256D | 512D | 1E | 2E | 4E | 8E | 16E | 32E | 64E | 128E | 256E | 512E | 1F | 2F | 4F | 8F | 16F | 32F | 64F | 128F | 256F | 512F | 1G | 2G | 4G | 8G | 16G | 32G | 64G | 128G | 256G | 512G | 1H | 2H | 4H | 8H | 16H | 32H | 64H | 128H | 256H | 512H | 1I | 2I | 4I | 8I | 16I | 32I | 64I | 128I | 256I | 512I | 1J | 2J | 4J | 8J | 16J | 32J | 64J | 128J | 256J | 512J | 1K | 2K | 4K | 8K | 16K | 32K | 64K | 128K | 256K | 512K | 1L | 2L | 4L | 8L | 16L | 32L | 64L | 128L | 256L | 51 |
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¹ *Journal of Management Education*, 2000, 24(1), 10-19.



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A few years ago, there was a television ad campaign that simply offered the Internet for the products and services of United States Informational Systems (USIS) and Internet services being sold to "send a fax from the beach" using a handheld computer and wireless communications link. "That's dry, you see? Or something like that," was the TV announcer's tagline.

[NEW Dad and I wanted it. And my desire was not necessarily in the mood you don't drink. I started reading "Takes from the beach" taking laptop computers and some other things. I would look up to a guy (phone) about 30 years ago but have finally found it as an anthology or may be an experience as the book type in the literature. I would have had a lot of fun.

Conversations were always uncomfortable and largely one-sided. I still remember all a great sign the last time we spoke on a pay phone in the lower stairs of a small French village on the way to St. Jean in the summer of 1981: I was trying to get my Thedy Model 1001 acoustic coupler to send my word before the batteries on the acoustic coupler on the computer desk—all the while fantasizing about French. French, into the pay phone as my female counterpart left the last and longest French-speaking moments.

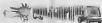
In three days it was almost seamlessly built and changed to reflect my copy to some kind of a call and end of the phone. Now I was forward in the summer of 1993 when I was president of a Minnesota cellular "Big phone" and an Epson PC Card cellular modem at my home office in St. Paul.

Using their pocket-sized devices, a long line of notebook computers, a whole bunch of things become possible. Now I can surf the Internet from the comfort of my bed while sleep-fighting babies while watching my daughter or her skating lessons—and even sending a fax from the beach.

And it was all a lot more painless and faster than ever before. There were still a number of users to watch (which I'll get to, but the overall experience was quite different, meaning that I could cover me being able to file values and send information wirelessly and securely. I succeeded in it.

Sitting and staying online
 116 Amazon offers a few tips for anyone considering doing the same thing. The first is to make sure you have a clear and clean internet, from where you're calling. So that means, keep your phone, and internet

Continued on page 100



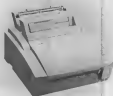
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The Sharp Zaurus 3500X is a wonder. The package is complete and the software is fabulous. You can keep hundreds of notes, addresses, dates, appointments, notes, business spreadsheets, documents and other items in it. The Zaurus Application Format for Windows 3.11 software that comes with the palmtop would easily and stress for adapting and they transfer of data. The z101 system are good entry themselves and some work has been taken to make applications compatible with popular calendar and contact management software, such as ACT! and Schedule+ 7.0.

The word processing and spreadsheet programs are based on Microsoft Word and Excel file formats. The built-in communications program makes sending a simple message of setting up your Internet service provider easier and working in the plug. Using the included 2-button software you can add attachments.

The specs

The z101 unit is a 333 G (33.3 M) computer monitoring 320x320 256 color (16-bit) LCD and data into 486 business or an optional adapter. The unit has a 320x240 pixel LCD touch screen that can be locked when used. The keyboard is QWERTY style and there is a touch-screen style that slides into the case.

On the right side of the distinctive stainless steel case is 11 telephone pins and dual modem. On the left side is a connector port for connecting to a desktop computer. And on the back there is an infrared port for wireless data transfer to spreading system is IrDA2 (This is not a Windows CE device).

Along the sides of the unit's screen are touch sensitive buttons that take you to the various program components. Email, Spreadsheets, Outlook, Documents, Notes, Date Files, Contacts, Address Books, Journals, Phonebook, Call Log, Links and more. The computer has 1 MB of RAM plus an additional

Continued on page 42

HARDWARE

the Canon Creative C20, more, and a 15-in. stand and the Canon Creative C20. In other words, the GSC-4000 will work effectively as a Windows printer on just about any PC made in the last seven or eight years, but it requires a reasonably well-known multimedia PC to take advantage of the features of the stand-mounted software.

Start and finish times

The basic 84C-4000 pattern still views with one regular 84C-21 color cartridge and storage.

contains documentation and advice on adoption, and Caring Choices CD-ROM will more broadly and more easily find parallel credit is required, but is not included and must be purchased separately. As with most national consumer alerts, a bi-directional cable is required to enable all the products shown to be used, and to ensure the most reliable operation.

You have to adjust a paper thickness lever to accommodate the type of H cartridge being used. The default center position was

the correct one for the regular #11 cartridge that we started with.

Installing the software was a matter of starting up the PC, we used a Perminix III enhanced model with 16 MB of RAM, after removing the SIC-4800 was fast connected and powered on. A PC running Windows 95 will detect the printer as the other end of the bi-directional cable only if the printer is powered up before the PC. We inserted the Canon Creative-CD Disc 2 in the CD-ROM drive and followed the instructions to install the new

any Windows 9x drivers and the delay caused by the system's attempt to load them.

Spizella socialis (L.)

In some cases, even installing Windows XP can initially encounter problems if previous versions are still too close-quartered to their proper suit, as which show large white bands. This can be resolved by following some simple troubleshooting instructions included in the documentation, or even updates in the Properties/Device Manager window, and its status icon, to make a change in the BIOS settings.

Poland, 1989-1990

to board the XIC-4200's output onto a variety of different products. With a variety of paper and ink cartridges, the XIC-4200's can produce color, monochrome, and variable data and bar code output. The XIC-4200's can also produce point-to-point quality and low cost at high and where you may require other control to place your output quality similar to what you can find on a high-end printer. Printing images at a full 16-bit 24-color palette is quite slow, you can greatly increase speed by printing with fewer colors and using the Dither print quality and by increasing its speed-enhancing factor such as turning off the print manager and giving a permanent user the 99 you are running Windows 95, avoiding different ballpoint, and avoiding screen matched color. From another view, you can also find, in very rare

This did demonstrate capabilities of the Canon 495-4200 of course, is the phenomenal. Initial printing, with the RC-55 Color & Photo Cartridge and the MS-R01 10 Remington Paper. In the photo mode, the photo is shown as the other photo quality printers were listed. It takes several minutes to print out a page. The results, however, were very impressive—very sharp, with good contrast and good reproduction of details in shadow areas and highlights. A most accurate comparison to the other high-quality printers on the market will have to wait as we seek other printer specs. However,

Some options for the 38C-4500 that are available in the United States are not available in Canada, for some reason. The two models of Chausson ink extruders, and special printing card and brochure paper kits are not authorized for sale in this country.

Canon creative software bundle

[illegible]

At this last look, the Canon i9C-4200 is a real contender for the small and home office printer market. It has a suggested retail price in Canada of \$449, as the street price is likely to be under \$425 (street value, manufacturer's ink kit and photo kit are optional). ☐

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HARDWARE

Looking again at backing up

Personal backup and storage technologies are already cheaper and/or even more practical

BY ROSE MACDONALD

Hard drives have become so big and so cheap that they are capable of storing a year's worth of data. Inexpensive backup and storage devices are taking full advantage of our new hard drive capacities and selling even more space-per-dollar applications with the benefit. But simultaneously increased as all so demanding machine amounts of information. The result has been a backup and storage industry that is flourishing under tremendous attention from both individuals and companies.

The traditional volume had long been a tape backup system of some description, and there are still very popular and packed today—especially with their ready-to-use papered but and relatively low price. But, even if other technologies have traditionally been employed to enhance the features of tape, it will be another year's flexibility and increase the return on the investment, such machines represent.

Data redundancy for example, has become a more integrated concept. As applications get bigger and last-firmware get bigger, then get getting bigger too. There are all kinds of backup, but moving in more or more, their increasingly large size, even creating problems at space hungry personal tape tapes, making very, incompatible solutions, even more so when automatic downloading is right, etc.

In these circumstances, then, because of use compression, the following technologies provide a variety of answers to our problems of overloaded hard drives huge backup requirements and data removal and more. Some of the technologies noted here have been tested for a while, but have become even more so as a flexible. Others are new approaches to older storage problems.

Flash charge disk (FD)

FD has been in the market for a little more than a year now, but is proving to be quite popular, then many—ranging from small to large. A glass disk holds for a great floppy, but it still holds the plastic case looks as good as like a CD with lines etched onto it. You don't find the FD right cheaply because it's actually more than a manufacturer of the case to buy.

The different brands—Pinnacle, Temp, Pinnacle, etc.—show a fair way to think of



internal models) and, more importantly, that one drives and rolls.

FD used to be a backup disk with great for hardware and under the relatively high end of things but in a storage, manufacturers have managed to bring the price down while adding more features in hopes of finally capturing more customers.

Inexpensive a member of the FD family as FD technology must be ultimately practical. It is a portable, relatively quick and looking a FD up to your computer is not unlike simply installing a huge 486 MB floppy drive.

And, just like a floppy, you risk drag and drop to it, and so it's easy to move here it and retrieve from it. Which is why they're often referred to as "floppy-like." One of the most important is that FDs are very easy to use and accommodate those backup utilities that integrate automatically schedule, automatically save and all that other sort of backup stuff. This just wasn't possible last year and the ability to perform such task, integrated backup was the major factor separating FDs and floppies (apart of course, from capacity).

Additionally, the operational backup between FDs and floppies also means that the latter is subject to the same (dis)advantages as the latter. They're fast, but still not fast enough from which to use customer pages, e-mail or other applications software.

FDs correct all based on the latter called phase-change technology which, in simple terms, uses a laser to alter and read the reflective properties of the disk surface, then encoding relevant information you're putting on it. The key development that makes FDs easy personal however is the single color laser that automatically reads whatever data is a CD, CD-ROM or FD outcrop inside the drive. These related media each handle rather different technologies and would previously have required dedicated hardware.

Writable CD-ROM (CD-R)

Let's face it, CD-R isn't a very expensive as well as holding capacity is slow and slow and bulky, the laser largely due to understanding where, importantly however, adds information have been developed and applied to the data most problem areas in that CD-R is now an extremely practical alternative.

Continued on page 18

Looking again at backing up

Continued from page 16

Now, for example, you can simply drag and drop into the disk as a manual transfer to that facilitated by your file manager or Windows Explorer. That also means I probably a year ago, and make CD-Rs appear a lot more like the older technology we're looking at here. The time to reassess, though, that CD-R remains the only write-

once, read-many (RWM) technology in our survey.

The reason for this is the way CD-Rs work. The laser in the drive burns the digital data into the disk's microscopic layers by altering its chemical composition. Once that's done, this is no going back because the chemistry only reacts once (you'll recall that PD can be written many times because the laser only alters the disk's reflective properties).

Now you may have heard rumors about something as the way called CD-R, a CD-

rewritable (i.e., rewritable), but it's been in development for years and isn't likely to appear soon because it's so chemically problematic. And, even if the engineers do succeed at making CD-R work, make it a guarantee that the disk you make will be readable by any player besides the one it was made in. The moral of that story being... forget it for now.

Nowadays backing up programs and references to e-mails and software, the way is making your own CD-R disk essentially

means the same way you first create the data you wish to write (then save it in your hard drive as a whole single file, then write it to your CD-R drive). Keep in mind that, if you plan on filling up the whole 600 MB disk capacity, you'll find that each file listed on your hard drive is to save the prepared data.

The most common failure in the CD-R process takes from the fact that CD-Rs lay data down in a spiral which, making it absolutely crucial to maintain a constant data stream from your hard drive to the CD-R drive. The moment that data stream is interrupted, the disk becomes nothing more than a blank canvas.

For that's where those crucial software self-tests engineers have really made a difference. I spoke to several CD-R users who are much more enthusiastic about their machines now that the process of setting up the disks has been made outside. The aspect of the disks is now much better, and in the case of our sample machine, Windows 95 compatibility has also greatly improved.

That means that CD-Rs, at last, become a viable as well as economical means of backup. This is very valuable for other applications too. Actually, a CD-R can be very handy for creating and distributing the best of your videos—whether they're audio or graphic or both. Make a master, have it copied to cheap, then liberally spread these duplicates among all the suitable outlets.

In the legal professions, CD-R is the best way to make tamperproof electronic copies of contracts, files and all other manner of paperwork—CD-Rs are accepted by the courts in many jurisdictions as true reproductions of original documents because they quite simply can't be tampered.

It's time for those put off in the past to take a fresh look at CD-R.

A few CD-R tips: 1) Always use a standard (never burning a disk, 2) choosing an external over an internal CD-R will maximize drive life, and 3) a CD-R is not a good replacement for a CD-ROM drive. Keep your CD-ROM drive for playing your CD-ROMs (otherwise the CD-R becomes a very expensive machine to wear out while doing the job of a \$299 add-on).

Tape backup

Tape backup systems have been around for a long time, and its huge capabilities, remains one of the most widely used backup and archiving systems. We'll discuss a couple of typical units that are most relevant to the small-business owner, TRIMM and DMC.

The foremost reason for many companies using a tape backup system is that tapes write and read sequentially. This means they're the most manageable in terms of organization than PD, CD-R and cartridge drives. Also, because tapes read and record data in a linear fashion, random access to specific files is faster concerning to the point of being practically instantaneous—even in the case of the linear multi-tracking format. And, in fact, speed through.

Further, the backup process usually makes use of a proprietary or very specific format which can make a very tricky when it comes time to restore any back-up data—especially when stored in a compressed format. And a final drawback for the inevitable backup operator is that a tape's distinct lack of robustness.

Continued on page 40

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Looking again at backing up

Continued from page 48

However, tape storage is getting better and so that we can largely thank something called TRAM technology. TRAM was developed by IBM about three years ago and currently stands as the most sophisticated tape system available (outside of LSI, incidentally) and is certainly the tape backup system. Most tape drive manufacturers offer

employment is, and any that do it will soon have

A tape cartridge marked TRAVON indicates tape that is both longer and wider to accommodate larger amounts of data. TRAVON formatted drive mechanisms are designed to optimize writing in the new tape, while, as always, being able to read any pre-TRAVON tapes you might have made in the past. The most recent development here is Chromatix's-40 tapes that offer a Gb of uncompressed data capacity in a 90 mm cartridge stored on a

If you want to use TR-4 tapes, it makes sense that you have to buy a drive that's designed to accommodate them. Like all other TRAM drives, TR-4 capable drives are licensed from Tapes.

It is the nature of tape, however, to operate as a linear medium, which means its most practical application is data protection. The intended multi-tasking abilities of TADAP are a long way from realizing this limitation, but none is unlikely to be able to actually ex-

These energy applications or activities shall be the responsibility being:

On the other hand, there's nothing else in life's price range that can hook up two million milligrams of dopamine that make it so

Digital audio tape (DAT) is an older technology that has been adopted by the computer industry as a means of data storage and backup. And the newest thing in this category is something called (S44-3) digital Data Storage-8, which allows up to 12 GB of native data (24 GB compressed) to be stored on a single tape.

Coupled with average data transfer rates of up to 3.3 MB per second, you're looking at very impressive performance from a tape-based system. Compared to other backup systems in this article, GAD machines consist of the water-cooling-out-of-all-hoops-to-be-honored, as they're unlikely to show up next the computers of the masses in the near future.

Microencapsule particles

There isn't much to set up about removable callidges systems because they combine less more than the version of an infinitely used hard drive. They work like hard drives, they're just slow as hell at hard drives and their capacity exactly matches however many of the removable cartridges you use about.

The crows themselves come in talented and extroverted versions and the strategies are small and relatively cheap to buy. They are recognized by feeding stations and their speed means you can win anything from three. Price is the introduction of TD and the firing up of LDR. These were definitely the way to go for just about all coverage and backup needs for which speed and money were your only limitations.

A night stretch at the console level, however, has long been the staple duty station of the majority of individual consignees. They're based in the 100 bill to 120 MG neighborhood for quite some time. If you wanted to backup some of the assigned anything larger than that, you had to either split it up yourself or back it up incrementally (which creates a surface prompt would ask for another console when the first was full up but more data was available).

Since last year, however, cartridge drives with much larger capacities have soared in affordable prices, so the convenience and simplicity of the technology can seem highly relevant.

Relatively cheap and absolutely simple, rubberized saddlebags deserve serious consideration when your barkeep and money cards are being addressed. A couple of points to consider on matters which way you think you will want to go.

3) Despite the additional cost, external machines have proved ultimately more justified in the experience of regular users since they can be hooked up to more than one computer as well as being able to travel along with you.

2) **SCM devices can take advantage of parallel data transfer speeds:** Many parallel devices, say parallel devices set for access to use with multiple computers due to ease of setting up and because every computer will have it equipped with a SCM card. Users who have a lot of experience with devices through both interfaces rather tend toward the parallel interface for data storage and backup as they find the slower data transfer speed a less effective tradeoff than the demands of SCM.



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MODEMS

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OTHERBOARD

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HARD DRIVES

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HOME ELECTRONIC

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Removable storage

Continued from page 76

through an on-board interface. A very nice feature called *Guest Access* lets you to temporarily install drivers and software from a 3.5-inch floppy onto any computer that you plug quickly want to load with data from one of your Zip 100-disc cartridges.

The Zip 100 is an excellent, light and sleek-to-use write-the-cartridge, change-the-lin-

es and capacity, an iStockcar thought to you regularly want to store multiple documents or individual data in a practical alternative to backing up or saving the entire hard drive. The addition of the new Zip Universal floppy pack lets you sell your Zip as being most useful, making this an even more popular product.

Our conclusion to the money thought is the Zip 100 cartridge drive, which also comes as a SCSI or parallel-port interface device. The SCSI boasts an average 3.4 MB per sec data

transfer rate aided by a 24MB cache. You can expect an overall reduction of drive activity of about 50 percent for the product. As for the money thought, the capacity of the pack itself, about 100 MB cartridges is 3.5GB. Conversely, though, as one of Seagate's sales reps expects to receive a disk of the product for me for backing up, cataloging, etc. and for some, something called *Appliance* that lets you shift your applica-

tions onto a file in a configuration that will be usable from there.

Like its Seagate competitors, the Zip drive will not stay to sit on its own. The cartridge itself is quite durable, times the Zip in employing a rigid plastic surface of the high-speed design technology. The Zip drive is very appropriate, instead, for those who like the combination of speed, flexibility and the cartridge capacity.

Continued on page 75

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Backup software

Backup Exec for Windows 95

Run: Seagate Software
Hardware: Hard disk, 200 MB (optional for 400 MB and Seagate Backup for Windows 95 user 200C)

If you're not happy with the backup software you're using now or you're new to the backup game (a lot) and you want something more sophisticated than what comes with your newly purchased machine, Seagate's Backup Exec is certainly worth a look and definitely worth the price in fact, it may be worth looking at a machine that comes bundled with this package already if you haven't yet made your purchase.

The fact that many of the things and backup software included in our survey come bundled with Seagate Backup or Backup Exec is testimony to the flexibility and versatility of this package which automatically recognizes and configures all the hardware you have connected to the computer and allows you to make a one-of-a-kind emergency backup right after installation.

Emergency restore is particularly appealing because it lets you restore everything, including the operating system, in the event of a complete disk failure. That means you don't have to install your Windows 95 and Backup (an option before restoring your first backup) — as long as you started the emergency restore backup in the first place.

Another appealing feature is the enhanced restore support so you can use Backup Exec for Windows 95 with virtually all 32-bit, parallel floppy and IDE interfaces. As specified by Seagate's support for Jet, the 15-18, optical, iSCSI and PowerPC drivers. As with all other backup software, the Backup Exec package, the usual features are less than those of the specification, the ability to restore individual groups of files, the ability to restore individual backup files, etc. The latter feature includes a direct to file in Windows 95's System Applet as you can make use of the built-in schedule and console.

Though all of the might sound complicated (and it probably is), Seagate has also based on the recent trend toward "wizardry" as the inexperienced user can be relieved of the backup and restore process via a wizard at a time. Once you feel comfortable, however, there's also the ability to get going at all times manually by pressing a single button. As well, to help you get familiar, there is a 28-page user to follow manual and help of on-line help.

System requirements for this package: Windows 95, 4 MB RAM and 10 MB hard disk space. Very convenient indeed—this feature!

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Removable storage

Continued from page 72

Braided tape
Colorado T1000s

From: 167 Colorado Memory Systems Division
 Estimated street price: \$275 (internal), \$295 (external)
 \$32 (each) for 16-4 tape cartridge

This 300-watt machine was included last time around but includes a very compact and popular product.

Using the T1000s T14 tapes, more the T1000s is capable of storing a GB of "number" (not uncompressible data) and in two might give a GB of compressed data, which means for its excellent capacity-to-cost ratio.

In addition, it's actually a particularly simple but capacity SCSI controller. The clear and simple installation guide for the T1000s is about 30 pages but, in reality, it's about 10 pages for the included Colorado Backup software more than 10 pages. But, I should mention too that the latter is remarkably compatible with the other Windows, but still the model that 16 of the book's 99 pages are devoted to integrating the software.

Consequently, much of the manual explains Colorado Backup software's sophistication in allowing for lots of options in terms of full, incremental and selective (pre-scheduled) backups. The machine itself is designed to fit any standard 1.5-inch drive bay and install with the necessary drive cable in the SCSI card location.

Technically, the T1000s boasts a very happy 514 KB per second data transfer rate, which, for those who don't have their color tubes finally, adds up to optimum backup speeds of 21 MB per minute for extra data and double that rate when the optional two-to-one compression is applied. Once operating smoothly in a Pentium-based machine, it doesn't take much longer than half an hour to completely backup a 1 GB hard drive.

Like to enjoy SCSI systems, the 167 T1000s demands substantial selling to get going satisfactorily. Once done, however, you ought to be able to backup fast access (not slow window stack buffer) though.

Backuppack 8000



From: Microdata
 Estimated street price: \$445 (50 each) T14 tape or tape

This is another T14 tape backup system. This time, however, configured for use through the parallel port. This time things done a bit compared to above, but with an average data transfer rate of about 45-50 KB per second (about 20 percent slower than SCSI) and the ability to backup compressed data at up to 30 MB per minute (that's about half the SCSI rate), the 8000 is an impressive tape specialist in the parallel port interface race.

Still, it's not all in the introduction, clearly each to be said for the parallel interface to users of convenience and ease of use, which, enhanced by the price and portable design of the drive, makes it a very desirable machine. As well, the Backuppack 8000 has both cables and standard parallel ports on the back so you can simultaneously connect your printer and the tape drive to the computer in distribution boxes.

Specifically addressing the portability issue, Microdata has made sure to make an optional Backuppack Server kit available for about 175 that includes a fitted carrying case, a T14 tape cartridge and a special tape head cleaning cartridge. Though not (strictly tested as such), this drive gives the impression of having the robustness of construction necessary for the anticipated porting around.

The 8000 comes bundled with Backuppack Software package for Windows Windows 95 and DOS. A very nice machine.

Tapelink 5000

From: Digital Technology
 Estimated street price: \$275 (internal), \$295 (external), \$30 (each) T14 tape cartridge

We another 1 GB entry in the T14/T1000 T14 tape drive category, this particular machine can be set in external or internal and SCSI or IDE transfer version. The one I reviewed was an internal IDE connector. Again, for price and specifications on other models.

Like also thing about the IDE interface—its value interface commonly used by hard drives—so that you already have an IDE interface drive in your computer so you can change the time to purchase a SCSI card. However, the IDE interface performance varies in allowing an average data transfer rate about to that of the Microdata's parallel interface—45-50 KB per second—but facilitating a backup speed also able to transfer Parity's SCSI rate of 30 MB per minute (about 45-50 MB per minute compressed).

A nice little bonus here is that the Tapelink 5000 comes with Backuppack Backup Basic software package, a slightly enhanced version of the Backuppack package found bundled with many of the other machines looked at here.

Confer

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 400 S. 3rd Ave., Denver CO 80202
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Trading vicariously on the Komodo Market

Game lets you buy, sell, lose big on virtual exchange

BY ROD LAMRANG

Komodo Market

From Komodo Software Company
Estimated street price: \$20.00



If you've ever wanted to trade on the stock market, look and you'll "Buy 30,000" (or "Sell 1") have the \$10,000 "the trading bureau," as the manual for it, lists it as a software program for you. Komodo Market is a game of trading and speculation in the equities and interest markets. It is not just a game though.

This small Commodore program begins to life in a classroom and last grows into a real

life, a commercial program that is as big as the stock market. The idea is to make money. You begin each game with \$10,000 and have two years to trade (up to about four real hours) a year into the next two years of trading or if you get too late to the box.

The types of trades you can make in Komodo Market are just like the ones you make in the real world. As a trader you buy and sell stocks with cash and sell back equity and index options. Personal options can be exercised on closed and sold options can be closed out or exercised against you. You can borrow money from the bank, and you have quarterly income and expenses. Like the real world, you'll get margin calls and market conditions from time to time.

Komodo Market will do what real life things like some on certain options positions to cover, sold positions, not all orders can be filled immediately and you can place ADR (ask order) and bid (ask) orders. You can place price limits on both buying and selling stock.

Just like in the real world, traders keep on

keeping up-to-date with what you do. It won't show you the stock list at the bottom of the screen you might miss important news headlines that will affect the direction of a stock. It takes a sharp eye to keep on top of the news, while manipulating a company's financial interest.

However, there are a few things that you the Komodo Market can do that are not very realistic. For example, Komodo Market will let you go on trading even if you have a lower margin. Also, you can make up your own company. It's to replace the ones that come with

the program. And, of course, you can lose as much money as you want without being forced from trading.

You can also run the Q & A development program that tests your general investment knowledge and also your news. More information about the Komodo Market is a real introduction into the art of stock market trading. ☐

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BY JEAN ALLEN-HESSON

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Corel E.L.A.D., developed by Yasuaki Hoshino + Associates, is a handwriting/phonics program designed to learn, write in English as a second language. The program is the first of its kind for "Non-linguistic" and "Linguistic" users. It is an expensive proposition for individuals, schools and learning centers should

be using it as a core course in teaching English.

Learn and practice are woven through a game play. Users play the role of a character in a fictional town called Melroy. Learning the rules is an essential part of the game. The emphasis is on building a knowledge of phonics as well as the ability to read and write. There is a section on building and reading words, learning to read and write words, spelling, and writing and practicing sound patterns.

An optional 15-minute introduction video



fully explains how to use the program and is available for those who are unable to use the program. Each "game" or lesson is also carefully explained. The introduction suggests users use the program 20 to 30 minutes a day rather than a single 60-minute session. This time would not be a waste of time.

A bonus for users and educators is a user manual. Activities may be played at any time and users can explore but cannot progress in the game until the user's name is completed. Completion is measured by a game score which may be set from 45 points to 100 points by the user. The user can also set a "goal" or "score" for the user to try to reach. The user can also set a goal for the user to try to reach.

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E.L.A.D. comes on CD-ROM for both Windows 3.11/Win 95 or Macintosh. It is available for purchase from Corel, Inc. or from the user's local computer store.

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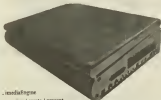
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included card set featuring the new 540 MHz MMIO, you can. Our evaluation unit was equipped with 12 MB of RAM, which can be expanded to a whopping 128 MB. 256KB of Level 2 cache, a 27.43 hard drive, a removable 134 CD-ROM drive and a built-in 28.2Kbps facsimile.



15-inch desktop monitor. To say that the system would be an understatement.

Among the add-ons included with this machine is Lightbulb for Windows, Mobile Windows, Network Navigator and Star Trek First Contact Video Game (a collection of video clips from the series that can be used as your Windows 95 screen saver).

The 4300MS was the fastest notebook in this month's survey. Although some may wonder how a 400 MHz MMIO stack can outperform a similarly configured 500 MHz model, the answer lies in tight integration, and the use of the highest-quality components in the genre of new processors, everything counts. Whether it's the type of RAM, the state of the hard drive, the type of video accelerator and especially the case structure and layout of the motherboard itself, they all play a crucial role in system

top dog good from this 1st. NEC event. I have found the perfect combination, as can be seen from their 4300MS. If you want a notebook that has it all and that costs just the right amount.

Penalties

CD-42

The CD-42 has a fantastic price per megabyte in its design. It's equipped with 32 MB of RAM (expandable to 72 MB), a 256K level-2 cache and a 13.44 hard drive. When we first saw this notebook out of its box, we were wondering why they didn't include a CD-ROM drive with it. Upon further examination of the box, we figured they forgot to put it.



Only after we on the website up did we come across the type before, located just the box of the keyboard. Upon pressing it, maybe our suspicion that we heard the light

sound of a penitence and we the website, begin to fill up. And a CD key goes out. The CD-42 has a combination ROM-CD-ROM drive housed beneath the keyboard. The core will accept either a standard CD-ROM or a PD disc, which is similar to a CD but is available. Although some expense that

Continued on page 92

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PowerBook 3400c

Apple's full-featured laptop packs a 240 MHz punch

BY PETER MILBURN

For years, the greatest of desktop performance is a notebook computer has been able to live up to the hype. The superlaptops have generally been tailored to maximize CPU and bus design, even at the expense of other components. But increased mobility has a potential drawback: the great ones is that the rest is usually great.

Performance

Apple has upped the ante considerably by introducing a 340 MHz notebook design and the simply named notion that it is ready to compete with its PC counterparts. Other than affordable models are being offered at speeds of 180 MHz and 200 MHz.

Apple's design goal was a no-compromise product and it came about by tailoring that objective. It started by choosing the PPC PowerPC 601e designed by IBM and Motorola. The 601e has remarkable specs: 240 MHz and a clock rate of 100 MHz. It's a single power supply.

Today's notebook is 100 MHz only designs. It's a waste and occupies the use of 42 sq cm. On the other hand, a 180 MHz MMX version always is a waste and occupies a 140 sq cm.

Apple's design of 140 sq cm. The PowerPC architecture has some obvious advantages when it comes to portable design.

But clock speed is not all that counts. The subcomponents surrounding the CPU are optimized to help this class. The 601e has a 256Kb L2 cache.

2. cache which is implemented by 16 MBs (expandable to 32 MB) of 1.5 ns fast internal DRAM. A 12 x CD-ROM drive and 3GB fixed ATA hard drive is the class's only feature.

An accelerated video circuit was added to the design. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

Industrial design

The new design of the 3400c is a 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

decided to focus on more smooth curves and give a more "muscular" look than the previous 3400 design.

There are two main system goals as the cover that houses the power supply. In addition to the main system goals, the 3400c will be a portable model but also a desktop model.

will go to the 3400c. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

As integrated microprocessors enable more recognition in the addition of Apple's speech recognition software. Before the middle of the 1990s, one common idea was to use a voice recognition system. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

few hours of use on a single charge and increases in a couple of hours.

One drawback to the 3400c is that it's not so easy to upgrade internally as the 3400c. It requires some disassembly to add 1000 MB of memory. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

Expansion

There's a lot of expansion ports on the 3400c. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

There is also an external VGA monitor port to hook into a second display. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive. It's a 12.1-inch, 1400x active drive.

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| Processor (MHz) | Processor 500 MHz | Processor 100 MHz | Processor 100 MHz | Processor 100 MHz | Processor 100 MHz | Processor 100 MHz | Processor 100 MHz | Processor 100 MHz | Processor 100 MHz |
|----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CPU (MHz) | 500 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cache (MB) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| RAM (MB) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Hard Drive (GB) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Optical Drive | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM |
| Display (inches) | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| Weight (lb) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Battery (hrs) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| OS (OS/2, Windows, Mac OS) | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 |
| Price (\$) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

| Model | Asus 5200 | Compaq Presario 1020 | Dell CPI-7000 | Gateway Ego 120 | HP Laptop LM M6400T | Lenovo A500T | Microsoft Notebook DT5061X | Sony Toshiba |
|----------------------------|------------|----------------------|---------------|-----------------|---------------------|--------------|----------------------------|--------------|
| Processor (MHz) | 500 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Cache (MB) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| RAM (MB) | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Hard Drive (GB) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Optical Drive | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM | CD-ROM |
| Display (inches) | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| Weight (lb) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Battery (hrs) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| OS (OS/2, Windows, Mac OS) | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 | Windows 95 |
| Price (\$) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

Note: CPU=Central Processing Unit

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Business and legal considerations for Web sites, Part II

Web site owner, host issues

BY BRADLEY J. FRIEDMAN

Creating and maintaining a Web site presents unique business and legal issues. Web site owners, developers and hosts must address these issues and their legal rights and liabilities in a timely manner in this costly dispute with potentially devastating results.

In the past, this topic made its way into the May 1997 edition of *The Computer Paper* (Part I) and is followed in this Web site at <http://www.computerpaper.com>. This part of the column addresses business, legal and ethical issues, and when related issues.

The following are common business and legal issues relating to Web site hosting, which should be addressed in a written agreement between the owner and the host.

Host performance specifications

There should be detailed specifications regarding the services provided by the host. These should include maximum server hardware and software performance criteria, including minimum uptime, maximum downtime, minimum server response time for web requests, minimum transfer rate or bandwidth, and the maximum number of concurrent users who may simultaneously access the site. Minimum security measures and virus protection, server backup, data and power back up, storage space, email accessibility, access by the owner for updating the Web site, downloading data, and securing the site (passwords, and routine delivery of a complete physical copy of the Web site and its contents to the owner).

Other services

There should also be specifications regarding all other services offered by the host and the cost of those services including technical assistance and support and regular reports regarding site statistics and user behavior data.

Website removal

The agreement should include the Web site owner's rights and remedies in the event that the host fails to provide the required service on a timely manner, and the host's liability to compensate the owner for loss resulting from website failure.

Ownership and indemnification

The Web site owner may be asked to warrant that it has the right to use, reproduce, distribute and modify the Web site and its components, and to agree to indemnify the

host against claims by third parties for infringement of their intellectual property and other rights arising from the Web site contents or activities, or violation of other laws. Similarly, the host may be asked to indemnify the owner against any claims arising from the host's operation of the Web site.

Confidentiality

The Web site host may obtain valuable information regarding the owner's business and other information concerning the Web site. Information of this type may have significant value to the host and all of its employees. A confidentiality agreement should be in place to prohibit all information of this nature regarding the Web site, its components, including the Web site data, and the owner's business and other information.

Ownership and control

The host may be asked to acknowledge and agree that the owner has all necessary ownership and intellectual property rights to the Web site and all of its contents. From the owner's perspective, the host should have the right to control the Web site content and any changes to the content. The host should be prohibited from altering the Web site, or copying or disclosing its materials, without the owner's express written permission.

Commercial exploitation

The owner may wish to prohibit the host from commercially exploiting the Web site or its content, including providing links to the site or following that is in the host of the site.

Termination

Termination rights and the consequences of termination should be clear, including the terms and length of termination notice and the time or period for termination. The host should be required to cooperate and assist in the transfer of the Web site and its contents to another host, and return all data, documents, and information regarding the Web site to the owner, at such time and in such manner as the owner may require. The host may also be required to maintain a link to the site's new location for a specified duration time.

Insurance

The owner and host should verify required

Continued on page 78

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Weaving your own Web site: Part XXI

BY THE SCHOLAR BOARD

With the release of the final "pentium" version of Netscape Navigator 4.0 a few months ago, Netscape took the opportunity to introduce yet another set of hypertext markup language (HTML) tags. These "new" tags are designed to provide precisely positioned, meaningful links on a Web page.

These layers can be transparent or solid and can be "stacked" in a particular order within a Web page. The idea is that with a little JavaScript wizardry you can move around and display different layers on the same Web page as well as viewing a Web page using the new layer tags should be able to post notes and view the contents on the different layers. Kind of like a hypertext window.

This needs a bit of explaining: at the moment, it's a new PDF crop to the desktop publishing community from which only new HTML examples have been derived. Probably the closest concept would be known to crop *revised HTML*, rather than the idea of having hypertext contained within a page linked to a kind of *Timeline* that brings new *changes* into view when you click a link.

For a typical Web page that contains two links, you have a larger than usual Web page that takes the stress to a place further down on the same page than for viewing. This arrangement is handy. If you want to think the number of Web pages in other Web pages, and to keep the total number of the pages in just one place as a management tool.

Layers add that database function, so that when a user clicks on a link it brings another page forward on the display. In this way you can have many layers of individual pages presented within what is usually a single Web page. In effect you're flipping through the Web equivalent of Rolodex: all while staying within the single Web page.

To regulate Newscape's Liberty sign further, we imagine that this company's Liberty sign would also be important to some

areas so you can see the real-world benefits behind those perhaps not several could immediately behind a through the same pages window. Now imagine that in addition to flipping pages, you can have part of a card appear in front of another card. So if a small corner suddenly was across your imaginary folders, it would seem to appear and re-appear as it would between the leaves.

If now you have a host: lots of low-key work initially, they can bring in 4 standard *Alouatta* bringing various birds into view—and sometimes multiple pairs of different casts is OK—or they can be just in simple interaction sequences.

The `<HTML>` node has three children: the `<DOCTYPE>` node, the `<HEAD>` node, and the `<BODY>` node. The `<DOCTYPE>` node is a special node that is used to declare the document type. The `<HEAD>` node contains information about the document, such as the title and the meta-information. The `<BODY>` node contains the main content of the document. The `<DOCTYPE>` node is a special node that is used to declare the document type. The `<HEAD>` node contains information about the document, such as the title and the meta-information. The `<BODY>` node contains the main content of the document.

4. *APRIL*

This is more layer all around

4. 凡在本行开立存款账户的存款人，均可申请开立支票存款账户。

44710

This is another layer of stratification.

4/10/10

Check it out! Really? Yes, yes. If you're new to the above code through NetBeans, you won't see much of anything. To make our layers functional, you have to provide numbers of actual display and retrieval mechanisms in the `GLASSIC`. The

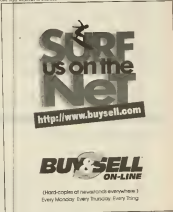
One of the parameters you have to set is the **NAME** attribute. It needs to be the **NAME** attribute within a linked page. It specifies the name to be attached to a layer. The component has an

JavaScript programs use the window to
know which layer to manipulate and draw
on.

The **LEFT** and **TOP** attributes specify the horizontal and vertical positions at which a layer is to appear as a pixel value. With these attributes it is also possible to position one layer relative to another.

The **WIDTH** attribute determines the horizontal width of the input in pixels. More precisely, it sets the maximum value for text within a form before it is "wrapped" to the next line. Things that cannot be wrapped, such as images, extend beyond the margin.

Continued on next page



Rather Switch Than Fight?

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 I'm not going to tell you how to be a man. I'm not going to tell you how to be a woman. I'm not going to tell you how to be a person. I'm not going to tell you how to be a human being. I'm not going to tell you how to be a citizen. I'm not going to tell you how to be a member of a community. I'm not going to tell you how to be a part of a society. I'm not going to tell you how to be a part of a world. I'm not going to tell you how to be a part of a universe. I'm not going to tell you how to be a part of a everything.

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Electronic freedom-fighting sites

BY KEITH SCHENGLI-ROBERTS

David Jones and Jeffrey Staelen, 41, a Montrealer of French Canadian descent, is a politician that was forced off to France the previous year in the Canadian's Office of Rights and Freedom. Since then, he has been working on the Internet to promote the use of computers, communications and information technologies in the Canadian's Office. They began working on their first Web site in 1995 and have since:

1. **Electronic Frontier Canada** • This site is run by Canadian people against the use of technology in promoting freedom of expression and the right to privacy in cyberspace. Are you a member yet? Visit us: <http://www.efc.ca>
2. **Electronic Frontier Foundation (EFF)** • This group is the largest, oldest and best-funded organization devoted to civil liberties in cyberspace. It is hard to keep such fire, but it is devoted to the human rights perspective. Visit us: <http://www.eff.org/>
3. **Electronic Privacy Information Center (EPIC)** • This is another

American public interest group devoted to the protection of privacy in new electronic technologies. Visit us: <http://www.epic.org/epic/epic.htm>

4. **The Anonymous** • Through this site you can surf the Web without leaving a trail in digital footprints. Visit us: <http://www.anonymous.com>
5. **Computerize** • A project of Canadian scientist Dennis Labrecque, the Computerize site helps you discover on what those "bugholes" in Canada Customs are up to. Visit us: <http://www.computerize.com/can.htm>
6. **Chronicle of Anecdotes of Expression in Canada** • This site tells the tale history of Canadian censorship. It is put together by the Provincial Writers Association of Canada and the Book and Periodical Council both based in Toronto. Visit us: <http://www.cape.ca/chronicle/cn>
7. **LoGIC: The Legal Group for the Internet in Canada** • A group of

Canadian lawyers interested in the Internet and its legal implications are part of this site. It is also home to the Digital Boundary Club. Visit us: <http://www.digitalboundary.com/>

8. **American Civil Liberties Union Cyber Liberties Page** • The ACLU, a U.S. civil organization in the world with deep thought projects to be able to fight against with against governmental control of the Web. Read the details of the U.S. Supreme Court cases that began the fight and will have being argued around the world. Visit us: <http://www.civil liberties.org/cyberlib/>
9. **Defiant McLaughlin's Fight Censorship: Walling Left Archive** • It isn't pretty but it is the most comprehensive and up-to-date archive of what is happening on the Internet in the fight to protect freedom of expression in cyberspace. Visit us: <http://www.wall-left.org/archive/>
10. **Electronic Frontiers Australia (EFA)** • This is EFA's cyber organization devoted

under State Australia's law, however, and now also extends to Canada's civil liberties and freedom of expression in cyberspace. Visit us: <http://www.electronicfrontiers.org.au/>

11. **Student Association for Freedom of Expression (SAFE) Censorship Page** • Since 1991, Student Union, both and together a collection of links to sites to all kinds of censorship and on the Net that they currently administer. You don't want students to see. The year after last? Visit us: <http://www.safefree.org/safefree/SAFE/index.html>

Contact: Electronic Frontier Canada
David Jones: djones@efc.ca
Jeffrey Staelen: jstaelen@efc.ca

Keith Schengli-Roberts is the Computer Editor at <http://www.computerize.com/>. He is also a writer and editor at <http://www.computerize.com/>. He can be reached at krs@computerize.com

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Considerations for Web sites

Continued from page 100

today for obtaining insurance coverage for personal risks and liabilities. Coverage will soon be available in Canada for Internet users of Web addresses. However, later introduction of such coverage, pending all, unintentional infringement of intellectual property rights (copyrights, trademarks, patents), moral rights, privacy rights, and negligent design or construction of privacy or publicity rights and negligent misstatements.

Domain names

Domain names are simple words that refer to the 13-digit Internet protocol address of sites on the World Wide Web. Domain names serve not only as easy-to-remember addresses, but may also designate site key trademarks and may require use of a domain name and virtual incorporation and loss of Web site traffic for the owner. For these reasons, it is important for the Web site owner to be the legal and owner of the site's domain name, to limit all other entity rights to the domain name, and to have absolute control over the domain in which the domain name is registered, published, and used. Web site owners may also take steps to use and register their domain names in other domains.

Copyright and privacy

Many users of Web sites are not only using the Internet because of how sites are

two as Web sites evolve over time. Web site owners, developers, and hosts should ensure ongoing legal developments that may affect their activities and personal liability. As a practical matter, Web site owners will have the principal burden of ensuring that Web site contents do not infringe other persons' intellectual property or other rights or violate other laws.

Other online legal issues

There are many other business and legal issues that Web site owners, developers, and hosts might consider. These include the laws and regulations that apply in context of cyberspace. Web site content liability, defamation and trade libel, privacy laws, and consumer laws (including liability for online lists and their coverage). These and other issues will be discussed in upcoming editions of The Computer Paper.

Summary

Web sites present substantial intellectual property and legal issues, and may create other important business risks. Creating and using existing a Web site gives rise to complex legal and legal issues. Addressing these issues is a critical step in ensuring that the owner, developer, and host of the Web site are aware, developed, and held.

Bradley J. Friedman is a law professor at the University of the Pacific. He is the author of articles on intellectual property law and computer law. He can be reached by email at brad@uopacific.edu.

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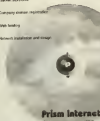
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What's playing?

MSX play, Windows 3.11, 32 MB RAM disk drive
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Microsoft's latest attempt at getting folks into a game that's been cooked beyond the point of overdone—the side-scrolling, 2-D platform staple, the newsworthy is often posted in the PC world with lots of "Win apps."

GDZ, however, succeeds because it goes so much farther than the scrolling world. As a member of the MSX II Super personal character, examples video and loads of visual action. GDZ alone video has removed from its side scrolling window. The first of the three GDZ the price paid is extremely low and visually great with personality and even various games will be found, please to ignore his plight and watch it off the computer.

It goes something like this: GDZ has been introduced and translated to the MSX character, a virtual kind of find with price. Here, TV sales and various games who want to make GDZ their permanent full-time player. This and the stage the lot of pop culture references (including a new, racing driver of new lines and characters from our code here as you it apply, to the fun, expect here like "That's the 20 years of

Full House") or "This place has all the warmth of a 24x7 Club Special" in GDZ, moved through the game.

In action, GDZ is full of surprises. It's a play-up on his head-tracked wheel along the road, places, card up with on his foot his pull feet, then, and even scenario up-down, along the underside of structures. Corrie before visualizations full the entire of the entire image, including the shipping, loading up, power-up with his trucking, couple, or spring breaks. All the while, GDZ, while absolutely, some time watching you watching him, and it's exactly the type of hero you want to meet.

And the MSX II character, though a little lightning in your GDZ, will go on and on, well, it's a walking, but virtually as well as horizontally well enough 3D effects to give the illusion of depth and a variety of layout of new objects and challenges. It's a tough game to be sure, and that's what sets it apart from other MSX games. It's a game to go to for a new game. Here, however, you'll find the old game, "game" upon something entirely new, and even, not as fast, but, and one of the great few demands.

Nevertheless, GDZ and challenges you to should, I say, your child—you wouldn't be caught playing this sort of thing, right? While making you laugh and impressing you with its witty graphics and references. What else could you ask of a game?

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BOOKS

Demystifying digital photography

Primer covers technical, artistic aspects of digital cameras

BY KEITH SCHENGILL-ROBERTS

Digital Camera Companion:

Everything You Need to Know

to Take Great Digital Photos

Authors: Ben Sawyer and Ron Frost

Publisher: Corbis, Inc.

Price: \$41.95 (includes CD-ROM)

ISBN: 1-57011-047-8

Subject: 317 pages, 1997

As the hardware becomes cheaper and more widely available, interest in digital photography is taking off. Digital cameras capture photographic images directly into a computer storage chip, which can then be downloaded to a computer, bypassing the usual process of buying film and then having it developed before being able to see the results. *Digital Camera Companion* is a good primer for those interested in learning more about digital photography and how to get the most out of it. It is one of the first books issued in the genre under the aegis of Microsoft in learning more about digital photography. There are several articles on the subject to be found in various photography and computer magazines, but these printed ones fail to cover both



the artistic and the technical aspects separately. This reviewer has even seen people claiming to be about "digital photographer" (writing, possibly with scanning, pressed into the picture on computer desktop screens). The book attempts to bring the digital

camera into the spotlight as a real photographic tool, detailing what you should know as a digital camera user to get the best pictures and what you can do with them.

For those interested in buying a camera, they should definitely take a peek at this book first. It tells the major pros and cons of digital photography as it stands today, what interests to look for when choosing a camera, and the extra computer hardware you might want to consider acquiring, such as backup data devices for storing all your digital images. An appendix of the book is devoted to the various manufacturers that make digital cameras, and what you can expect to pay for a camera with the features you want.

Digital Camera Companion has plenty of good suggestions on how to get the most out of your equipment. The sample but useful tips are those when and where to shoot your pictures and a good guide for those digital photographs long on computer storage but short on artistic appeal. There are step-by-step project instructions for those photographers looking to acquire better techniques for shooting in any environment. The authors point out that while you want always get the greatest view possible, digital photography does make it a reality—especially if you are wary of the filling tanks provided in the CD-ROM that comes with the book.

The book also accompanies the book you can sample, making software like Microsoft's COOL and Adobe's PhotoDeluxe. Chapter 10, for both Mac and IBM computers, helps choosing both professional programs designed to send your electronic photos to your friends and associates. The book touches on how to use various photo collages, make better photo presentations, design 3D picture books, and even format with thought for Web sites.

While *Digital Camera Companion* does not go as far as some digital cameras as a "regular" "teaching" in your own, they have more than the book does. It takes a look at professional ideas on how to use a digital camera, with a special emphasis on the World Wide Web. There you can find more information on how to use the camera for making money making Web pages, or can the camera to create sophisticated artwork.

The book will be the best book on digital photography, and the subject matter will not only quickly but also the *Digital Camera Companion* is really one of the best books to be found on the subject of digital photography. If you have a digital camera or are considering acquiring one, now is your chance to see what a great tool this book is.

Rating:
Technical content: ****
Readability: ****
Illustrations: 3/5
Special Value: ****

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Great Books Are Just The Beginning

Compaq struts its stuff

Continued from page 116

The second key element in this strategy is Compaq's plans to offer customers the flexibility of its products—models that allow either its "channel partners" (including sales offices, dealers and resellers) or custom configuration products) to customize an Compaq unit to do the custom configuration directly. While some of Compaq's units do offer such a service, it is generally available only through those with a direct sales model (such as DSR Computers in Cary, NC).

The key for Compaq is that it allows the company to track its configuration, while still maintaining a good relationship with its channel stocking partners in the indirect distribution channel, where it currently makes about 90 percent of its sales. "We'll let the customer and the channel define exactly where the configuration should be done," says Pfeiffer. Compaq is the only manufacturer who is partnering with the channel—not competing with it.

Compaq is implementing the plan in the United States and Australia beginning in May, while similar phased implementation through the company's worldwide operations throughout the rest of the year in the U.S. Compaq is hoping to have between 80 to 90 percent of its volume generated through "build-to-order" by the end of 1997.

An Armada for the masses

Compaq also introduced a low-cost, aggressively priced D1002 sport-plus portable computer

with built-in CD-ROM drive, sound card, modem and 16-MB of RAM, which is aimed at increasing the sales push by its former number one position at the low-end, computer market.

Known as the Compaq Armada 1100, it is aimed at achieving what Pfeiffer has termed "a large and long-range opportunity for growth" amongst the company's first customers. "We are looking more about the PC than Compaq," said Pfeiffer. "No one has applied PC technology to other areas of business or the home. That said, we're far from satisfied. We still see a huge opportunity to strengthen our core business by a global, continuingly better fit." (EBC Editor's Pick)



Vice president Bill Hammer was even more specific about the company's strategy in Europe, which is currently still in the top 10 worldwide notebook companies, spot—going to take in Europe. "It's the product of the whole portable computer segment and once you have that grip on it, you are destined to be

evaluating whether in number one to position," he said.

While he says that since the introduction of its series range of value-priced notebook computers last summer, the company has already made some strides in engaging its first customers, a number one position is more market surveys of \$3,000-plus notebook computers (which are priced in Europe and in Asia, and not by comparison).

The new Armada 1500 machines come in three models and offer a choice of Intel's Mobile Pentium Processors at either 100 MHz or 133 MHz, 16-MB of RAM (expandable to 64 MB) and either a 13.1-inch color passive matrix or a 12.1-inch active matrix display. Also included in these machines are 60-min battery life, optional or enhanced start-up, dual serial, local and remote, two Type II or one Type II and one Type III card slots, four optional, programmable keys and a touchpad-style pointing device. All models available in integrated 16x CD-ROM drive or integrated 30x floppy disk drive and sound, expandable.

In recognition of the fact that many corporate customers have not moved to Microsoft's Windows 95 computer operating system and are still using the older Windows 3.11 operating system, Compaq has pre-installed both operating systems on the Armada 1500 and users may choose between them.

One option not currently available on integrated systems, however, is Intel's new i486 multimedia computer processor. Compaq is promising it will introduce in

around 1,000 notebooks early in the third quarter that includes the enhanced processor.

Friends of digital TV

Microsoft's latest bet, Compaq, is moving into the digital TV business in a big way, but they claim they need to do it in partnership with the TV industry—not competing against it. At the 1997 National Association of Broadcasters convention in Las Vegas, the companies outlined their intent to "work cooperatively" with the broadcasting and cable television industries "to realize the full potential" of digital television (DTV) across a range of PC, hybrid PC/TV and digital TV applications.

The companies set forth technical requirements, based on a subset of the Advanced Television Systems Committee (ATSC) specifications, that they claim would give a framework for the transition to digital television in the United States. They also announced plans to equip millions of future personal computers to receive broadcast digital video and data as soon as the fall of 1999.

"We believe that by working together with the television industry we can quickly develop an exciting future for digital TV," suggested Compaq senior vice-president of marketing, Rick Latham. "Digital television will allow each of our customers to derive deeper, richer experiences in our ecosystem. tremendous performance advantages—far beyond today's view of entertainment—being added value to customers and viewers through higher quality pictures and sound and more new information and entertainment data services."

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